# 302 VALVE CASINGS

## 302.01 DESCRIPTION

Work consists of excavation, backfill and compaction beyond trench excavation limits, disposal of excess material, furnishing and placing valve casings complete with concrete base, piers as needed, precast concrete rings and casing frames and covers at locations indicated in the contract documents and/or as directed.

## 302.02 SUBMITTALS

Shop drawings per 105.02 shall be submitted for precast concrete items, cast-iron frames and covers.

## 302.03 MATERIALS

Reinforcing Steel, Grade 60 - 812.02
PCC Base - Cast-in-place per 817, Class B, or precast per 821.04
PCC Piers - Precast per 824
Precast PCC Risers and Cones - 821.04
Casing Brick - 806.01(A)
Casing Frames and Covers - 815.04
Mortar - 806.05(B)(4)

## 302.04 CONSTRUCTION REQUIREMENTS

Casings shall be furnished and constructed over gate valves, suction and dead-end blow-offs and air valves as shown in the Contract Documents. Excavation and backfill shall be included as part of work, and shall be per 207.

Casings shall be constructed of precast PCC rings. Casings, frames and covers shall be as detailed in the Contract Documents. The bottom flange of frame shall have two 3/4-inch diameter holes drilled or cast therein, directly opposite each other. Corresponding holes shall be drilled, a minimum of two (2) inches deep, into the precast concrete ring or brick masonry upon which the frame sits. Steel dowels shall be inserted through and into these holes to prevent lateral movement of frame and cover during backfill operations. Dowels shall be #5 rebars, three (3) inches minimum length. Brick masonry, not exceeding four (4) inches vertical depth, may be used to adjust frame and cover to finished grade.

## 302.05 MEASURE AND PAYMENT

The unit of measure will be each.

Payment for Valve Casing will be made at the Contract unit price per each, which payment will include excavation and backfill beyond trench excavation pay limits, concrete base and piers, risers, frames and covers, and all labor, materials, tools, equipment and incidentals needed to complete work specified.